

# 4-Port 10/100Base-TX + 1-Port 100Base-FX Industrial Ethernet Switch with Wide Operating Temperature



## Highly Convenient and Feasible Industrial Robust Switch

In the PLANET ISW-511 series Industrial Ethernet Switch, PLANET nowadays has upgraded and provided two new models named ISW-511T and ISW-511TS15 for wide temperature operation environment. The capital 'T' means that it can support and operate under **WIDE-TEMPERATURE** environment ranging from **-40 up to 75 Degree C**. As we know the temperature in many places and countries of the world are lower than -10 Degree C, these two new models, ISW-511T and ISW-511TS15, will be the right products for Transportation, Manufactory, Security and Surveillance network deployment in those harsh environments. The ISW-511T / ISW-511TS15 also provides a high level of immunity against electromagnetic interference and heavy electrical surges which are usually found on plant floors or in curb side traffic control cabinets.

## Distance Extendable and Flexibility

Each of ISW-511T / ISW-511TS15 includes four 10/100Base-TX Auto-Negotiation ports and one 100Base-FX port. The ISW-511T equips 100Base-FX multi-mode SC interfaces for transmission distance up to 2km and ISW-511TS15 equips 100Base-FX single-mode SC interfaces for transmission distance up to 15km. Users can choose the suitable model for network deployment either for long distance (ISW-511TS15) or short distance (ISW-511T) transmission.

## Easy Installation and Wide Range of Power Usage

The ISW-511T and ISW-511TS15 are designed with a compact case that allows either DIN rail or panel mounting for efficient usage of cabinet space. It provides an integrated power supply with a wide range of voltages for worldwide operation. It also offers dual-redundant, reversible polarity 12V DC to 48V DC power supply inputs for high availability applications requiring dual or backup power inputs.

## KEY FEATURES

### PHYSICAL PORT

- 4-Port 10/100Base-TX RJ-45 with auto MDI/MDI-X function for ISW-511T series
- 1-Port 100Base-FX interface on ISW-511T for up to 2km (Multi-mode fiber 62.5/125µm, 50/125µm) transmission distance
- 1-Port 100Base-FX interface on ISW-511TS15 for up to 15km (Single-mode fiber 9/125µm) transmission distance

### LAYER 2 FEATURES

- Complies with IEEE 802.3, IEEE 802.3u 10/100Base-TX, 100Base-FX Ethernet standard
- Supports Auto-Negotiation and 10/100Mbps half / full duplex mode for each copper port
- High performance Store and Forward architecture, broadcast storm control, runt/CRC filtering eliminates erroneous packets to optimize the network bandwidth
- Prevents packet loss with back pressure (Half-Duplex) and IEEE 802.3x PAUSE frame flow control (Full-Duplex)
- Backplane (Switching Fabric): 1Gbps
- Integrated address look-up engine, supports 2K absolute MAC addresses
- 1Mbit on-chip frame buffer
- Automatic address learning and address aging
- CSMA/CD Protocol

### INDUSTRIAL CASE / INSTALLATION

- IP-30 Metal case / Protection
- DIN Rail and Wall Mount Design
- 12 to 48V DC, redundant power with polarity reverse protection and connective removable terminal block for master and slave power
- Supports EFT protection 6KV DC for power line
- Supports 6KV DC Ethernet ESD protection
- -40 to 75 Degree C wide operating temperature

**APPLICATIONS**

*Industrial Switch for High Performance Data Collect and Forward*

The ISW-511T and ISW-511TS15 both equip with four 10/100Mbps ports offering auto MDI / MDIX feature and one 100Base-FX optic-fiber SC interface providing 1Gps non-blocking switch fabric and the 2K MAC Address table so that they can perform wire-speed packets transfer without risk of packet loss. The ISW-511T / ISW-511TS15 with the slim type IP 30 metal shape are ideal for most Heavy Industrial demanding environments.

